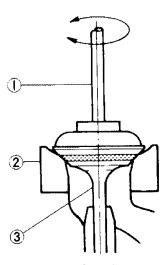
4-22 ENGINE TOP END

Valve Lapping



- 1. Lapper
- 2. Valve Seat
- 3. Valve

Measuring Valve-to-Guide Clearance

(Wobble Method)

If a small bore gauge is not available, inspect the valve guide wear by measuring the valve to valve guide clearance with the wobble method, as indicated below.

- •Insert a new valve into the guide and set a dial gauge against the stem perpendicular to it as close as possible to the cylinder head mating surface.
- Move the stem back and forth to measure valve/valve guide clearance.
- •Repeat the measurement in a direction at a right angle to the first.
- **★**If the reading exceeds the service limit, replace the guide.

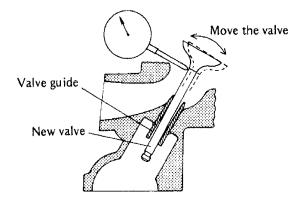
NOTE

• The reading is not actual valve/valve guide clearance because the measuring point is above the guide.

Valve/Valve Guide Clearance (Wobble Method)

	Standard	Service limit
Inlet	0.02 - 0.09 mm	0.25 mm
Exhaust	$0.06 - 0.12 \mathrm{mm}$	0.26 mm

Wobble Method

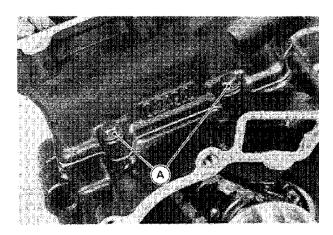


Cylinder, Piston

Cylinder Removal

Remove the following parts before cylinder removal.
Cylinder Head Cover

- Carburetor
- Main Oil Pipe
- Camshafts
- Cylinder Head
- Radiator Hose (Cylinder side)
- •Remove the cylinder base bolts.

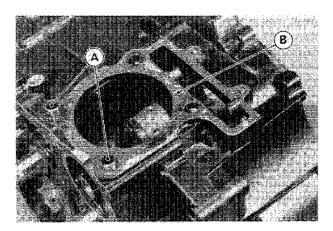


A. Cylinder Base Bolts

•Take out the cylinder.

Cylinder Installation Notes

•See that the dowel pins are in place on the crankcase and install a new cylinder base gasket.



A. Dowel Pins

B. Gasket

- •Install the piston.
- •Install the cylinder and tighten the cylinder base bolts to the specified torque (see Exploded View).